schmidt
a brand of aebi schmidt

Stratos 4.0 - 12.0 m³

Spreader

Stratos spreaders are available in various sizes and are compatible with most tractors and carrier vehicles. The combinations of hopper, conveyor belt or auger system, pre-wet equipment, various distribution systems, drive options, demount systems and control systems offer maximum flexibility. The intuitive operation and outstanding performance of the Stratos guarantees an intelligent and efficient winter maintenance operation.

Highlights

- **Modular design** with a large variety of options and extensions
- Most **modern control technology** with data management option
- **Environmentally friendly spreading technology** and sustainable components made of recycled material

Your benefits

- Innovative, modular design for **individual configurations** tailored to your tasks and operating conditions
- Intuitive operation and assistant systems permit **maximum flexibility in resource planning**
- **Long service life at low maintenance costs** owing to the high-quality materials

Performance features

Mounting and demounting systems

Maximum safety – Mounting and demount systems

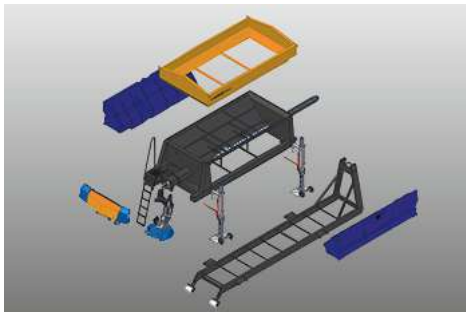
The key components and sturdy construction of the Stratos spreaders are designed for maximum safety and stability, especially during mounting and demounting.
The Stratos spreaders are available in two basic variants:

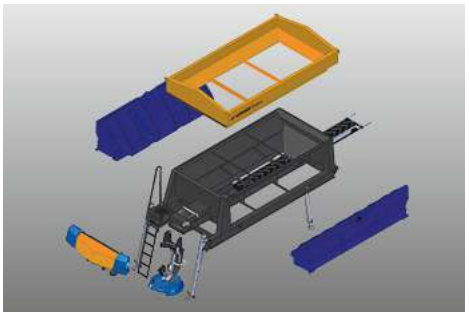
- For demount legs, hooklifts and fix-mounted systems
- For the ro-ro (roll on/roll off) system.

Both variants can be demounted with a full hopper and full brine tanks.

The new ro-ro system – Even better and easier to use

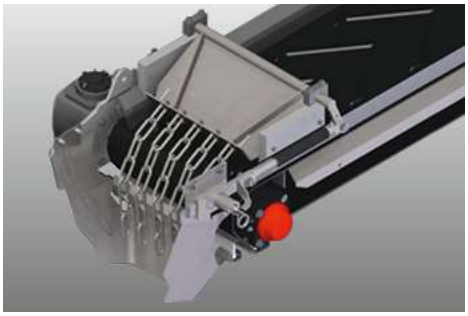
The further development of the ro-ro system enabled us to make efficient improvements in trailer operation, as the 40cm increase in clearance permits the use of a trailer or a mobile warning sign. In addition, the small tipping angle and the safety belt provide maximum safety while mounting and demounting.





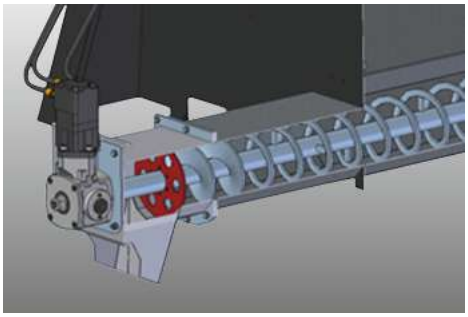
Dosage and conveyor systems

Conveyor belt system



The Stratos systems combine efficiency with safety; the conveyor belt system provides a reliable means of practical every day applications. The integrated conveyor belt is fibre-reinforced, and its V-profile ensures even transportation of the spreading material, while a stainless steel guide plate makes it possible for the belt to glide at full surface contact and minimum friction.
The precise dosage of all commercially available spreading materials is enabled by the accurately adjustable belt speed as well as a feed gate. The feed gate is equipped with an integrated lump-crushing function to ensure a flawless spreading operation; lumps are broken up at constant pressure, preventing stones and foreign particles from blocking or damaging the system. The constant feed rate allows for high dosing accuracy, irrespective of the spreading material's moisture content, while fitted chains ensure the controlled delivery of the spreading material to the chute. The optimised belt cleaning system prevents salt from running onto the truck's loading platform, improving the vehicle's ease of maintenance. The lateral sealing between the hopper and the conveyor belt by vertical belt wipers adds to the simplified maintenance required.

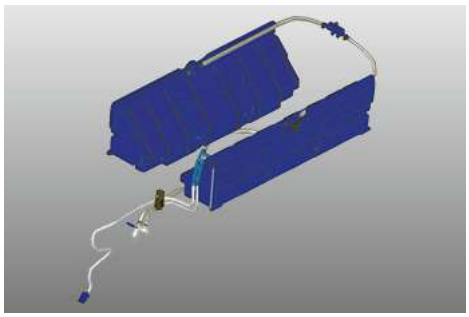
Auger system



The basic component of the Stratos auger system is a Flex auger with two-stage pitch. It is a cold-formed spiral with an open structure that allows for effort-saving transport at low breakaway torque. A variable thread ensures even discharge of the hopper, having a direct positive effect on the centre of gravity of the truck's spreader. Our new dosing disc achieves even dosage, which is guaranteed by a closed-loop control circuit. Meanwhile, continuous target-to-actual comparisons ensure accurate and constant speed of the system. A cover fitted as standard relieves the auger of the spreading material's load, noticeably increasing its service life. The auger system is driven by a high-torque hydraulic motor and ensures safe and reliable start-up.

Pre-wet equipment

The Stratos pre-wet equipment is accurately adapted to the hopper size, the capacity of which has been increased, permitting an individually adjustable pre-wet salt admixture of FS 25 to FS 35. The laterally situated liquid tanks with integrated baffles are made of impact-proof and cold-resistant polyethylene. The point of intake is located at the centre of the tank, which permits trouble-free operation even in challenging hilly or mountainous regions. The integrated level indicator enables drivers to always keep track of the spreading material consumption, while the stainless steel filling and drain connection ensures reliable filling, which is considerably accelerated due to the integrated valve-filter combination, large duct cross-sections and maximum user friendliness. When switching on the brine (FS 30), the dry material is automatically reduced and the distribution system settings are optimised in accordance with the change in composition of the de-icing agent. The system achieves a high level of accuracy, thanks to integrated sensors for comparison of the actual versus the target value of the control loops.



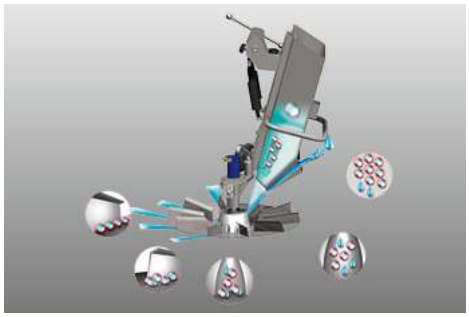
Distribution systems

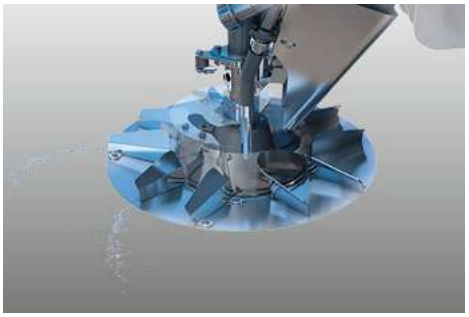
Premium distribution system

In order to apply the spreading material as efficiently as possible, we have advanced our distribution systems to achieve the best possible material flow by integrating a PE chute and optimising the outlet angle of our mixing system. This is enabled due to the path of the spreading material, which is transported via the Premium mixing system to the centre of the spreading disc and is optimally distributed until it is discharged. As a result, a homogenous mixture is produced, which is ejected dynamically as a concentrated jet against the direction of travel.

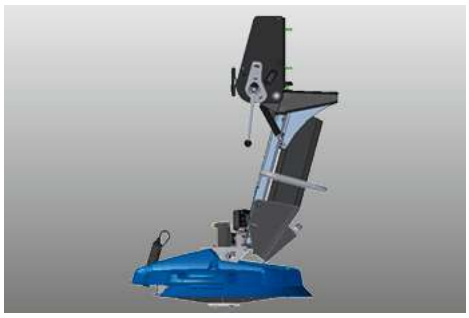
Premium^{plus} distribution system

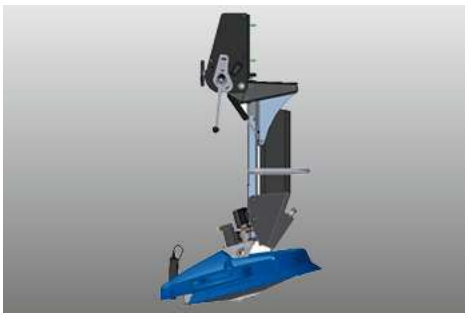
The Stratos Premium^{plus} mixing system is a further development of our Premium mixing system. In the plus variant, the mixture of salt and brine is completely prepared in a mixing chamber by means of centrifugal force and rotary movement. The rotary mixing chamber is operated electronically via the control panel and can be set to create either a symmetrical or an asymmetrical spreading pattern. The optimised scoop geometry and dimensions ensure a high level of precision over the selected spreading widths of 6.6 - 32.8 ft, 9.8 - 39.4 ft or 13.1 - 45.9 ft.





Kick-back protection on the spreading disc
On contact, the entire distribution system folds away to the back, preventing damage to the spreader.





Drive options

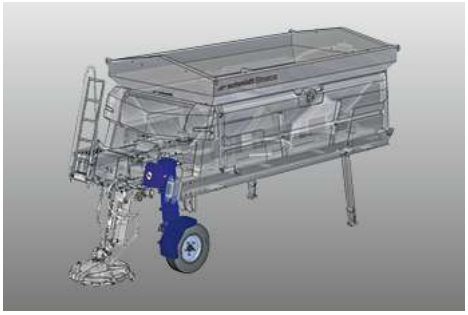
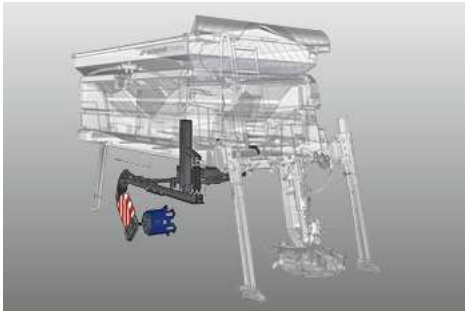
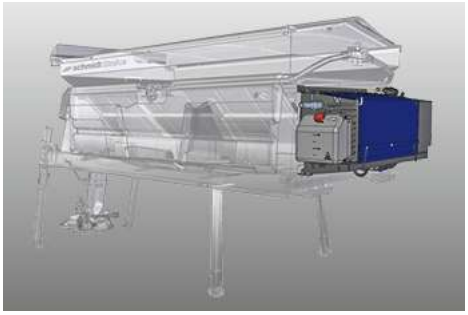
The Stratos drive systems are designed for maximum efficiency at minimum costs.

Vehicle hydraulic system – The municipal solution
In this variant, the spreader is simply powered by the existing hydraulic system of the carrier vehicle. The regulation of the power requirement in LS hydraulic systems means that, due to the low power required during spreading operations, the carrier vehicle needs to share less performance, with lower fuel and oil consumption.

Wheel drive – The conventional solution
The drive power comes from a separate wheel running at the rear of the truck. The wheel's position has been optimised to enable easy and trouble-free connection to the driveshaft for discharge.

Innovative, CO_2-neutral Rotopower – The patented solution
In this system, the required drive power is taken directly off the rear wheel hub and used to further power the vehicle, thus creating a fuel-saving solution with optimum performance.

Engine drive – The vehicle-independent solution
The diesel engine is integrated at the front of the spreader, which reduces the required body length. The start/stop function can now be actuated both via the control panel in the cab and directly on the engine. The performance of the engine drive has also been designed to have minimum power requirements, resulting in low fuel consumption.

Control and information systems

The Schmidt EvolutionLine comprises three operating concepts and provides professional solutions to make de-icing easier and more efficient. Their modular structure offers a completely flexible configuration, making it possible to precisely adapt the control panels to the required needs.

ES control panel – The premium solution

The ES control panel of the Schmidt EvolutionLine is the smartphone among the control panels that meets all current and future operational requirements. The frost-proof 7” colour touchscreen display is sited in a splash-proof, sturdy housing and ensures comfortable handling, plus a long service life. The spreading density, spreading pattern and spreading width are adjusted via ergonomic click-turn control knobs, while eight illuminated push buttons operate the primary and menu-dependent functions. Equipped with optional additional components, the ES control panel can be easily upgraded to become the high-tech control centre of the spreader.

Overview of add-on modules:

- Voice confirmation for commands
- Rear camera view directly on the display
- IntelliOPS: GPRS modem for online data transfer
- GPS for position location
- Route Assistant: GPS-guided spreading operations with route guidance
- ThermoLogic: Temperature-dependent dosage

EP control panel – The extendable solution

The EP control panel is an extendable solution that can be flexibly adapted to meet the required needs. The control panel has an ergonomic design in a sturdy housing, while standard equipment comprises a frostproof, backlit display, ergonomic click-turn control knobs, plus illuminated push buttons that can be assigned individual tasks.

Overview of add-on modules:

- IntelliOPS: GPRS modem for online data transfer
- GPS for position location

EC control panel – The entry-level solution

The compact EC control panel meets all basic requirements and permits easy and smooth operation of the spreader. Thanks to easy to use buttons, handling is very straightforward and complemented by ergonomic click-turn control knobs fitted as a standard.

IntelliOPS telematics platform

If you want to monitor, plan, control in real time, optimise or, for example, bill third parties for the activities of your Stratos, then use the digital solutions on our IntelliOPS platform. IntelliOPS supports you in the efficient use of your individual machine as well as in a network with several machines, including those of other brands. Here you can find out more about our digital solutions and how you can use them in a way that is modular and adapted to your needs.

Gallery

Variants

Stratos A50K

The Stratos A50K is a trailer spreader with a hopper capacity of 6.5 yd^3.

Stratos 50

The Stratos 50 is a mounted spreader with a hopper capacity of 6.5 yd^3.

Stratos 100

The Stratos 100 is a spreader with a hopper capacity of 13.1 yd^3.

Related products

Stratos 1.7 - 3.0 m³
Spreader

Syntos
Spreader

Stratos Combi Soliq
Combination machine

Trust in our many years of uniquely diverse experience. **Get in touch with us.** We'll find the right solution for your specific challenge.

Technical data

	Stratos A40K	Stratos A50K	Stratos 40
Hopper			
Hopper capacity	5.2 yd³	6.5 yd³	5.2 yd³
Pre-wet equipment			
Tank capacity lateral tanks	488.7 gal	488.7 gal	488.7 / 634 gal
Conveyor system			
Conveyor system	belt	belt	belt / Auger
Distribution system			
Distribution systems	Premium 5-zone mixing system: Spreading disc diameter: 19.3 in Spreading width: 6.6 - 32.8 ft Spreading disc: Premium 5-zone with PW50 Spreading disc diameter: 19.3 in Spread. width: 6.6-32.8 ft/PW50 6.6-19.7 ft Premium 5-zone mixing system: Spreading disc diameter: 26 in Spreading width: 9.8 - 39.4 ft Premium 5-zone mixing system: Spreading disc diameter: 26 in Spread. width: 9.8-39.3 ft/PW50 6.6-26.2 ft Premium 5-zone mixing system: Spreading disc diameter: 23.6 in Spreading width: 6.6 - 32.8 ft Premium plus mixing chamber: Spreading disc diameter: 26 in Spreading width: 9.8 - 39.3 ft Premium plus mixing chamber: Spreading disc diameter: 27.6 in Spreading width: 13.1 - 46 ft	Premium 5-zone mixing system: Spreading disc diameter: 19.3 in Spreading width: 6.6 - 32.8 ft Spreading disc: Premium 5-zone with PW50 Spreading disc diameter: 19.3 in Spread. width: 6.6-32.8 ft/PW50 6.6-19.7 ft Premium 5-zone mixing system: Spreading disc diameter: 26 in Spreading width: 9.8 - 39.4 ft Premium 5-zone mixing system: Spreading disc diameter: 26 in Spread. width: 9.8-39.3 ft/PW50 6.6-26.2 ft Premium 5-zone mixing system: Spreading disc diameter: 23.6 in Spreading width: 6.6 - 32.8 ft Premium plus mixing chamber: Spreading disc diameter: 26 in Spreading width: 9.8 - 39.3 ft Premium plus mixing chamber: Spreading disc diameter: 27.6 in Spreading width: 13.1 - 46 ft	Premium 5-zone mixing system: Spreading disc diameter: 19.3 in Spreading width: 6.6 - 32.8 ft Spreading disc: Premium 5-zone with PW50 Spreading disc diameter: 19.3 in Spread. width: 6.6-32.8 ft/PW50 6.6-19.7 ft Premium 5-zone mixing system: Spreading disc diameter: 26 in Spreading width: 9.8 - 39.4 ft Premium 5-zone mixing system: Spreading disc diameter: 26 in Spread. width: 9.8-39.3 ft/PW50 6.6-26.2 ft Premium 5-zone mixing system: Spreading disc diameter: 27.6 in Spreading width: 13.1 - 46 ft Premium 5-zone mixing system: Spreading disc diameter: 23.6 in Spreading width: 6.6 - 32.8 ft Premium plus mixing chamber: Spreading disc diameter: 26 in Spreading width: 9.8 - 39.3 ft Premium plus mixing chamber: Spreading disc diameter: 27.6 in Spreading width: 13.1 - 46 ft
Mounting/demount system			
Mounting/demount system	–	–	RoRo / Demount legs / Hoofklift / Skip handler / Fixed-mounted
Drive system			
Type of drive	Integrated drive / Vehicle hydraulics	Integrated drive / Vehicle hydraulics	Vehicle hydraulics / Rotopower / Wheel drive / Engine drive
Control system			
Control system	EC / EP / ES	EC / EP / ES	EC / EP / ES
Dimensions			
Hopper length	9‘ 10“	9‘ 10“	9‘ / 11‘ 10“
Mounting length	11‘ 6“	11‘ 6“	11‘ 6“ / 13‘ / 15‘ 5“
Hopper width	78.7“	78.7“	78.7“
Frame width	78.7“ (Demount systems)	78.7“ (Demount systems)	76.8“ (RoRo) / 78.7“* (Demount systems)
Hopper height	60.6“	67.3“	58.7“ / 63“
Weights			
Empty weight approx.	5,324 lbs	5,379 lbs	2,238 lbs

	Stratos 50	Stratos 60	Stratos 70
Hopper			
Hopper capacity	6.5 yd³	7.9 yd³	9.2 yd³
Pre-wet equipment			
Tank capacity lateral tanks	488.7 / 634 gal	634 / 792.5 gal	634 / 792.5 gal
Conveyor system			
Conveyor system	belt / Auger	belt / Auger	belt / Auger

	Stratos 50	Stratos 60	Stratos 70
Distribution system			
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Mounting/demount system			
Mounting/demount system	RoRo / Demount legs / Hoofklift / Skip handler / Fixed-mounted	RoRo / Demount legs / Hoofklift / Skip handler / Fixed-mounted	RoRo / Demount legs / Hoofklift / Skip handler / Fixed-mounted
Drive system			
Type of drive	Vehicle hydraulics / Rotopower / Wheel drive / Engine drive	Vehicle hydraulics / Rotopower / Wheel drive / Engine drive	Vehicle hydraulics / Rotopower / Wheel drive / Engine drive
Control system			
Control system	EC / EP / ES	EC / EP / ES	EC / EP / ES
Dimensions			
Hopper length	9‘ / 11‘ 10“	11‘ 10“ / 13‘ 9“	13‘ 9“
Mounting length	11‘ 6“ / 13‘ / 15‘ 5“	13‘ / 15‘ 5“	15‘ 5“
Hopper width	78.7“	78.7“	78.7“
Frame width	76.8“ (RoRo) / 78.7“* (Demount systems)	76.8“ (RoRo) / 78.7“* (Demount systems)	76.8“ (RoRo) / 78.7“* (Demount systems)
Hopper height	64.2“ / 69.7“	65“ / 69.7“	69.7“
Weights			
Empty weight approx.	2,293 lbs	2,480 lbs	3,031 lbs

	Stratos 80	Stratos 90	Stratos 100
Hopper			
Hopper capacity	10.5 yd^3	11.8 yd^3	13.1 yd^3
Pre-wet equipment			
Tank capacity lateral tanks	634 / 792.5 gal	634 / 792.5 gal	792.5 gal
Conveyor system			
Conveyor system	belt / Auger	belt / Auger	belt

	Stratos 80	Stratos 90	Stratos 100
Distribution system			
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Mounting/demount system			
Mounting/demount system	RoRo / Demount legs / Hoofklift / Skip handler / Fixed-mounted	RoRo / Demount legs / Hoofklift / Skip handler / Fixed-mounted	RoRo / Demount legs / Hoofklift / Fixed-mounted
Drive system			
Type of drive	Vehicle hydraulics / Rotopower / Wheel drive / Engine drive	Vehicle hydraulics / Rotopower / Wheel drive / Engine drive	Vehicle hydraulics
Control system			
Control system	EC / EP / ES	EC / EP / ES	EC / EP / ES
Dimensions			
Hopper length	13‘ 9“	13‘ 9“	14‘ 10“
Mounting length	15‘ 5“	15‘ 5“	16‘ 6“
Hopper width	78.7“	78.7“	7‘ 1“
Frame width	76.8“ (RoRo) / 78.7“* (Demount systems)	76.8“ (RoRo) / 78.7“* (Demount systems)	7‘ 2“ (RoRo) / 8‘ 6“* (Demount systems)
Hopper height	74.2“	78.9“	80 1/2“
Weights			
Empty weight approx.	3,131 lbs	3,208 lbs	3,605 lbs

	Stratos 120
Hopper	
Hopper capacity	15.7 yd^3
Pre-wet equipment	
Tank capacity lateral tanks	792.5 gal
Conveyor system	
Conveyor system	belt

	Stratos 120
Distribution system	
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Mounting/demount system	
Mounting/demount system	RoRo / Demount legs / Hoofklift / Fixed-mounted
Drive system	
Type of drive	Vehicle hydraulics
Control system	
Control system	EC / EP / ES
Dimensions	
Hopper length	14‘ 10“
Mounting length	15‘ 5“
Hopper width	7‘ 1“
Frame width	7‘ 2“ (RoRo) / 8‘ 6“* (Demount systems)
Hopper height	7‘ 4“
Weights	
Empty weight approx.	3,748 lbs

aebi schmidt group

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